

CHAPTER 6

REFERENCE

- Abderrahmane Morkrani, Khodir Madani. (2016). Effect of solvent, time and temperature on the extraction of phenolic compounds and antioxidant capacity of peach (*Prunus persica* L.) fruit. *Separation and Purification Technology*. 162. 68-76.
- Al-Farsi, M.A. and Chang Y. L. (2007). Optimization of phenolics and dietary fibre extraction from date seeds. *Food Chemistry* 108(3), 977-985.
- Ali Khoddami, Meredith A. Wilkes and Thomas H. Roberts. (2013). Technique for Analysis of Plant Phenolic Compounds. *Molecules*, 18, 2328-2375.
- Alothman, M., Bhat, R., Karim, A.A., (2009). Antioxidant capacity and phenolic content of selected tropical fruits from Malaysia, extracted with different solvents. *Food Chem.* 115, 785–788.
- Ayala F., Lembo G., Nappa P. and Balato N. (1985). Contact dermatitis from propolis. *Contact Dermatitis*, 12,181-182.
- Biesaga. M., Pyrzynska. K. (2013). Stability of bioactive polyphenols from honey during different extraction methods. *Food Chem*, 136, 46–54.
- Barja G. (2002). Endogenous oxidative stress: relationship to aging, longevity and caloric restriction. *Aging Res. Review*, 1(3), 97-111.
- Banskota, A. H., Tezuka, Y., Adnyana, I. K., Midorikawa, K., Matsushige, K., Message, D., et al. (2000). Cytotoxic, hepatoprotective and free radical scavenging effects of propolis from Brazil, Peru, the Netherlands and China. *Journal of Ethnopharmacology*, 72, 239–246.
- Bankova V., Christov R., Kujungiev A., Marcucci M. C. and Popov S. (1995) Chemical composition and antibacterial activity of Brazilian propolis. *Zeitschrift für Naturforschung Section C. Biosciences*50, 167-172.
- Basnet, P., Matsuno, T., & Neidlein, R. (1997). Potent free radical scavenging activity of propolis isolated from Brazilian propolis. *Zeitschrift für Naturforschung, Teil C*, 52, 828–833.
- Bedi M.K, Shenefelt P.D. (2002). Herbal therapy in dermatology. *Arch Dermatol*, 138, 232–42.
- B.E. Richter, B.A. Jones, J.L. Ezzell, N.L. Porter, N. Avdalovic, C. Pohl. (1996) Accelerated solvent extraction: a technique for sample preparation, *Anal. Chem.* 68.1033–1039.
- Bernardo FP, Saraiva PM. (2008). A theoretical model for transdermal drug delivery from emulsions and its dependence upon formulation. *J Pharm Sci.*, 97(9), 3781–809.

- Benhammou, N., F.A. Bekkara and T.K. Panovska. (2008). Antioxidant and antimicrobial activities of the *Pistacia lentiscus* and *Pistacia atlantica* extracts. *Afr. J. Pharm. Pharmacol.*, 2:22-28.
- Bjorkner B. E. (1994) Industrial airborne dermatoses. *Dermatology Clinics*, 12, 501-509.
- Boryana Trusheva, Dorina Trunkova and Vassya Bankova. (2007). Different extraction methods of biologically active components from propolis: a preliminary study. *Chemistry Central Journal* 2007. 1:13.
- Cabral, I.S.R., Oldoni, T. L. C., Prado, A., Bezerra, R.M.N. and Alencar, S.M. (2009). Composição fenólica, atividade antibacteriana e antioxidante da própolis vermelha brasileira. *Química Nova*, 15, 1-5.
- Cao, Y. H., Wang, Y., & Yuan, Q. (2004). Analysis of flavonoids and phenolic acid in propolis by capillary electrophoresis. *Chromatographia*, 59, 135-140.
- Cacace, J. E. and Mazza, G. (2003). Mass transfer process during extraction of phenolic compounds from milled berries. *Journal of Food Engineering*, 59, 379–389.
- Ćetković GS, Djilas SM, Ćanadanović-Brunet JM, Tumbas VT. (2004). Antioxidant properties of marigold extracts. *Food Res. Int.*, 37, 643-650.
- CHEMID. (1996). A chemical database sponsored by the National Library of Medicine. Bethesda, MD.
- Chen, C.-W., & Ho, C.-T. (1995). Antioxidant properties of polyphenols extracted from green and black tea. *Journal of Food Lipids*, 2, 35–46.
- Chew, K.K., Khoo, M.Z., Ng, S.Y., Thoo, Y.Y., Wan Aida, M. and Ho, C.W. (2011). Effect of ethanol concentration, extraction time and extraction temperature on the recovery of phenolic compounds and antioxidant capacity of *Orthosiphon stamineus* extracts. *International Food Research Journal* 18(4): 1427-1435.
- Chunli Sun, Zhengshuang Wu, Ziyang Wang and Hongcheng Zhang. (2015). Effect of Ethanol/Water Solvent on Phenolic Profiles and Antioxidant Properties of Beijing Propolis Extracts. *Evidence-Based Complementary and Alternative Medicine* Volume 2015, 9.
- Cimino F, Saija A. (2005). Flavonoids in skin cancer chemoprevention. *Curr. Topics Nutraceut. Res.*, 3(4), 243-258.
- Cirasino L., Pisati A. and Fasani F. (1987). Contact dermatitis from propolis. *Contact Dermatitis*, 16,110-111.
- Council of Europe. (2007). Determination of tannins in herbal drugs. In *European Pharmacopoeia*, 6th ed.; European Directorate for the Quality of Medicines: Strasbourg, France, p. A286.
- Departemen Kesehatan Republik Indonesia. (1995). *Farmakope Indonesia*, Edisi IV, Direktorat Jendral Pengawasan Obat dan Makanan, Jakarta.
- Dr. Charlene DeHaven M.D. (2014). *Oxidative Stress and Free Radical Damage to Skin*.

- Dobrowolski J. W., Vohora S. B., Sharma K., Shah S. A., Naqvi S. A. H. and Dandiya P. C. (1991). Antibacterial, antifungal, antiamoebic, antiinflammatory and antipyretic studies on propolis bee products. *Journal of Ethnopharmacology*, 35, 77-82.
- Durling, N. E., Catchpole, O. J., Grey, J. B., Webby, R. F., Mitchell, K. A., Foo, L. Y. and Perry, N. B. (2007). Extraction of phenolics and essential oil from dried sage (*Salvia officinalis*) using ethanol-water mixtures. *Food Chemistry*, 101 (4), 1417-1424
- E. Dorta, M.G. Lobo, M. Gonzalez, (2012). Reutilization of mango byproducts: study of the effect of extraction solvent and temperature on their antioxidant properties, *J. Food Sci.* 77. C80–C88.
- Eleni Naziri, Fani Mantzouridou and Maria Z. Tsimidou. (2012). Recovery of Squalene from Wine Lees Using Ultrasound Assisted Extraction- A Feasibility Study. *Agric. Food Chem.* 60. 9195-9201.
- Engen, T. (1991). *Odor sensation and memory*. New York: Praeger Publishers.
- Esser B. (1986). Allergy due to propolis. *Aktuelle Dermatologie*. 12, 203-205.
- F. Benmeziane, R. Djamai, Y. Cadot, R. Seridi. (2014). Optimization of extraction parameters of phenolic compounds from Algerian fresh table grapes (*Vitis vinifera*), *Int. Food Res. J.* 21.1025–1029.
- Faria, E. V., Yotsuyanagi. K. (2002). *Técnicas de análise sensorial*. Campinas: ITAL/LAFISE.
- E. Silva, H. Rogez, Y. Larondelle. (2007). Optimization of extraction of phenolics from *Inga edulis* leaves using response surface methodology, *Sep. Purif. Technol.* 55, 381–387.
- FDA Guidance for Industry: SUPAC-SS. Nonsterile semisolid dosage forms-scale up and post-approval changes: chemistry, manufacturing controls: in vivo release testing and in vivo bioequivalence documentation. May 1997.
- Folin. O, Ciocalteu. V. (1927). On tyrosine and tryptophane determinations in proteins. *J. Biol. Chem.* 73, 627–650.
- Garcia-Salas. P, Morales-Soto. A, Segura-Carretero. A., Fernández-Gutiérrez. A. (2010). Phenolic compound-extraction systems for fruit and vegetable samples. *Molecules*, 15, 8813–8826.
- Gabaldo'n-Leyva, C. A., Quintero-Ramos, A., Barnard, J., Balandra'n-Quintana, R. R., Talama's-Abbud, R. and Jimenez-Castro, J. (2007). Effect of Ultrasound on the Mass Transfer and Physical Changes in Brine Bell Pepper at Different Temperatures. *J. Food Eng.*, 81, 374-379.
- Getie M, Gebre-Mariam T, Riety R, Neubert RH. (2002). Evaluation of the release profiles of flavonoids from topical formulations of the crude extract of the leaves of *Dodonaea viscosa* (Sapindaceae). *Pharmazie*, 57(5), 320-322.
- Glasl, H. (1983). Zur Photometrie in der Drogenstandardisierung.3. Gehaltsbestimmung von Gerbstoffdrogen. *Dtsch Apoth Ztg*, 123, 1979–1983.

- Greenaway, W., May, J., Scaysbrook, T., & Whatley, F. R. (1991). Identification by gas chromatography–mass spectrometry of 150 compounds in propolis. *Zeitschrift für Naturforschung, Teil C*, 46, 111–121.
- Gülçin, I.; Sat, I.G.; Beydemir, S.; Elmastas, M.; Küfrevioğlu, Ö.I. (2004). Comparison of antioxidant activity of clove (*Eugenia caryophyllata* Thunb) buds and lavender (*Lavandula stoechas* L.). *Food Chem*, 87, 393–400.
- Halliwell, B. (1994). Free radicals and antioxidants, and human disease: curiosity, cause, or consequence. *Lancet*, 344, 721–724.
- H. Yang, Y. Dong, H. Du, H. Shi, Y. Peng, and X. Li. (2011). Antioxidant compounds from propolis collected in Anhui, China. *Molecules*, vol. 16, n 4, 3444–3455.
- Harnly JM, Doherty RF, Beecher GR, Holden JM, Haytowitz DB, Bhagwat S, Gebhardt S. (2006). Flavonoid content of U.S. fruits, vegetables, and nuts. *J Agric Food Chem*, 54(26), 9966-77.
- Herodež, Š. S., Hadolin, M., Škerget, M. and Knez, Ž. (2003). Solvent extraction study of antioxidants from *Melissa officinalis* L. leaves. *Food Chemistry* 80, 275- 282.
- Herrera and M.D. Luque de Castro.(2004). *Anal. Bioanal.Chem.*379, 1106.
- Hitoshi Masaki (2010). Role of antioxidants in the skin: Anti-aging effects. *Journal of Dermatological Science*, 58, 85–90.
- Hausen B. M., Wollenweber E., Senff H. and Post B. (1987). Propolis allergy I. Origin properties usage and literature review. *Contact Dermatitis*, 17, 163-170.
- Ho, C. H. L., Cacace, J. E. and Mazza, G. (2008). Mass transfer during pressurized low polarity water extraction of lignans from flaxseed meal. *Journal of Food Engineering* 89, 64-71.
- Huie CW. (2002). A review of modern sample-preparation technique for the extraction and analysis of medicinal plants. *Anal Bioanal Chem*, 373, 23-30.
- Huxley RR, Neil HA. (2003). The relation between dietary flavonol intake and coronary heart disease mortality: a meta-analysis of prospective cohort studies. *Eur J Clin Nutr*. 57(8), 904-908.
- I. B. S. Cunha, A. C. H. F. Sawaya, F. M. Caetano et al. (2004) Factors that influence the yield and composition of Brazilian propolis extracts. *Journal of the Brazilian Chemical Society*, 15(6), 964–970.
- ISO 21149, International Standard. (2006). *Cosmetics-Microbiology-Enumeration and detection of aerobic mesophilic bacteria*.
- Jaouad Bouayed and Torsten. (2010). Exogenous antioxidants- Double-edged swords in cellular redox, *Oxid Med Cell Longev*, 3(4), 228-237.
- J.Azmir, L.S.M. Zaidul, M.M. Rahman, K.M. Sharif, A. Mohamed, F. Sahena, M.H.A. Jahurul, K.Ghafoor, N.A.N. Norulaini, A.K.M.Omar. (2013). Technique for extraction of bioactive compounds from plant material: A review. *Journal of Food Engineering* 117, 426-436.

- Joshi H (2012) Potentials of traditional medicinal chemistry in cosmetology industry; prospectives and perspectives. *Anaplastology an open access journal* 1: 3.
- J. Sun, Chu YF, Wu X, and Liu RH. (2002) Antioxidant and antiproliferative activities of common fruits. *J Agric Food Chem.* 50(25). 7499-54.
- J. Shi, J. Yu, J. Pohorly, J.C. Young, M. Bryan, Y. Wu. (2003) Optimization of the extraction of polyphenols from grape seed meal by aqueous ethanol solution, *J. Food Agric. Environ.* 1. 42–47.
- Jurga Bernotaniene, Masteikova. R, Davalgienne. J, Peciura. R, Guaryliene. R, Bernatoniene. R, Majiene. (2011). Topical application of *Calendula officinalis* (L.): Formulation and evaluation of hydrophilic cream with antioxidant activity. *Journal of Medicinal Plants Research*, 5(6), 868-877.
- Kuljarachanan, T., Devahastin, S. and Chiewchan, N. (2009). Evolution of antioxidant compounds in lime residues during drying. *Food Chemistry* 113(4): 944-949.
- Liu M, Li XQ, Weber C, Lee CY, Brown J, Liu RH. (2002). Antioxidant and antiproliferative activities of raspberries. *Journal of Agricultural and Food Chemistry*, 50(10), 2926–2930.
- Liu W, Wang X. (2004). Extraction of flavone analogue from propolis with ultrasound. *Food Sci (China)*, 25, 35-39.
- L.J. Wang, C.L. Weller. (2006). Recent advances in extraction of nutraceuticals from plants, *Trends Food Sci. Technol.* 17. 300–312.
- Loreta Kubiliene et al. (2015). Alternative preparation of propolis extracts: comparison of their composition and biological activities. *BMC Complementary and Alternative Medicine*, 15:156.
- Luximon-Ramma A., Baborun T., Soobrattee M.A., Aruoma O.I. (2002). Antioxidant activities of phenolic, proanthocyanidin, and flavonoid components in extracts of *Cassia fistula*. *J. Agric. Food Chem*, 50, 5042–5047.
- Luthria, D. L., Mukhopadhyay, S., & Kwansa, A. L. (2006). A systematic approach for extraction of phenolic compounds using parsley (*Petroselinum crispum*) flakes as a model substrate. *Journal of Science of Food and Agriculture*, 86(9), 1350–1358.
- Luthria, D. L. (2008). Influence of experimental conditions on the extraction of phenolic compounds from parsley (*Petroselinumcrispum*) flakes using a pressurized liquid extractor. *Food Chemistry*, 107(2), 745–752.
- Luque-Garcia, J. L. and Luque de Castro, M. D. (2003). Ultrasound: A Powerful Tool for Leaching. *Trends Analyt. Chem.*, 22, 41-47.
- Masteikova R, Bernatoniene J, Bernatoniene R, Velziene S. (2008). Antiradical activities of the extract of *Passiflora incarnata*. *Acta Pol.Pharm*, 65(5), 577-583.
- Masaki. H. (2010). Role of antioxidant in the skin: Anti-aging effect. *J. Dermatol. Sci*, 58, 85-90.

- Márquez AL, Palazolo GG, Wagner JR. (2007). Water in oil (w/o) and double (w/o/w) emulsions prepared with spans: microstructure, stability, and rheology. *Colloid Polym Sci.*, 285, 1119–28.
- Mason, T.J., Paniwnyk, L., Lorimer, J.P. (1996). The uses of ultrasound in food technology. *Ultrasonics Sonochemistry*, 3 (3), 253–260
- Marcucci M. C. (1995). Propolis: Chemical composition, biological properties and therapeutic activity. *Apidologie*, 26, 83-99.
- Marinus J Sommeijer, (1999). Beekeeping with stingless bees: a new type of hive. *Bee World*, 80(2), 70-79.
- Monti M., Berti E., Carminati G. and Cusini M. (1983). Occupational and cosmetic dermatitis from propolis. *Contact Dermatitis*, 9,163.
- M.C. Herrera, M.D.Luque de Castro. (2004). Ultrasound-assisted extraction for the analysis of phenolic compounds in strawberries, *Anal. Bioanal. Chem.* 379. 1106–1112.
- M. Naczek, F. Shahidi. (2006). Phenolics in cereals, fruits and vegetables: occurrence, extraction and analysis, *J. Pharm. Biomed. Anal.* 41. 1523–1542.
- Naczek M., Shahidi F. (2002). Phenolics in cereals, fruits and vegetables: Occurrence, extraction and analysis. *J. Pharm. Biomed. Anal.*, 41, 1523–1542.
- Nedić, M., Wassermann, T. N., Larsen, R. W., Suhm, M. A. (2011) A combined Raman- and infrared jet study of mixed methanol– water and ethanol–water clusters. *Phys. Chem. Chem. Phys.*, 31, 14050–14063
- Park, Y.K., S.M. Alencar and C.L. Aguiar, 2002. Botanical origin and chemical composition of Brazilian propolis. *J. Agric. Food Chem*, 50, 2502-2506.
- Park EK, Song KW. (2010). Rheological evaluation of petroleum jelly as a base material in ointment and cream formulations with respect to rubbing onto the human body. *Korea-Australia Rheology Journal*, 22(4), 279–89.
- Paul Thau BS, Charles Fox BA. (1965). A New Procedure for the Preparation of Polyethylene-Mineral Oil Gels. *J Soc Cosmetic Chemists*, 16, 359–63
- Pietta P-G. (2000). Flavonoids as antioxidants. *J. Nat. Prod.*, 63, 1035-1042.
- Pietta PG, Gardana C, Pietta Am. (2002). Analytical methods for quality control of propolis. *Fitoterapia*, 73, 7-20.
- Pinelo, M, Rubilar, M, Sineiro, J, Nuñez, M. J. (2004). Extraction of antioxidant phenolics from almond hulls (*Prunus amygdalus*) and pine sawdust (*Pinus pinaster*). *Food Chem*, 85, 267- 273
- Pelozo, M.I.G.; Cardoso, M.L.C.; Mello, J.C.P. (2008). Spectrophotometric determination of tannins and caffeine in preparations from *Paullinia. cupana* var. *sorbilis*. *Braz. Arch. Biol. Technol.* 51, 447–451.
- Quy Diem Do, Artik Elisa Angkawijaya, Phuong Lan Tran-Nguyen, Lien Huong Hyunh, Felycia Edi, Soetaredjo, Suryadi Ismadji, Yi-Hsu Ju. (2014). Effect of extraction solvent on total phenol content, total flavonoid content, and antioxidant activity of *Limnophila aromatic*. *Journal of Food and Drug Analysis*, 22(3), 296-302.

- Ramos, A. F. N., Miranda J. L. (2007). Propolis: a review of its anti-inflammatory and healing actions. *J. Venom. Anim. Toxins incl. Trop. Dis.*, 13(4), 697-710.
- Reuter J, Wölfle U, Weckesser S, Schempp C. (2010). Which plant for which skin disease? Part 1: Atopic dermatitis, psoriasis, acne, condyloma and herpes simplex. *J Dtsch Dermatol Ges*, 8(10), 788-796.
- R. A. Laskar, I. Sk, N. Roy, and N. A. Begum. (2010). Antioxidant activity of Indian propolis and its chemical constituents. *Food Chemistry*, vol. 122, 1,233–237.
- Sehn E, Hernandez L, Franco SL, Goncalves CC, Baesso ML. (2009). Dynamics of reepithelialisation and penetration rate of a bee propolis formulation during cutaneous wounds healing. *Anal Chim Acta*, 635(1), 115–20.
- Sforcin, J. M. (2007). Propolis and the immune system: a review. *Journal of Ethnopharmacology*, 113, 1-14.
- Schofield, P.; Mbugua, D.M.; Pell, A.N. (2001). Analysis of condensed tannins: A review. *Anim. Feed Sci. Tech*, 91, 21–40.
- Shirsath S. R, Sonawane S. H. and Gogate P. R. (2012). Intensification of extraction of natural products using ultrasonic irradiations—A review of current status. *Chem Eng Process Process Intensif.* 53, 10–23.
- S.K. Khanna, P.N. Viswanathan, P.S. Krishnan, G.G. Sanwal. (1968). Extraction of total phenolics in the presence of reducing agents, *Phytochemistry* 7. 1513–1517.
- Sun, T. and Ho, C. 2005. Antioxidant activities of buckwheat extracts. *Food Chemistry*, 90, 743–749.
- Tang, S. Z., Kerry, J. P., Sheehan, D., & Buckley, D. J. (2002). Antioxidative mechanisms of tea catechins in chicken meat systems. *Food Chemistry*, 76, 45–51.
- Tan, P. W., Tan, C. P. and Ho, C. W. (2011). Antioxidant properties: Effect of solid-to-solvent ratio on antioxidant compounds and capacities of Pegaga (*Centella asiatica*). *International Food Research Journal*, 18, 553-558.
- Turkmen, N., Sari, F. and Velioglu, Y.S. (2006). Effect of extraction solvents on concentration and antioxidant activity of black and black mate polyphenols determined by ferrous tartrate and Folin-Ciocalteu methods. *Food Chemistry*, 99, 838-841.
- Vijay D.Wagh. (2013). Propolis: A Wonder Bees Product and Its Pharmacological Potentials *Advances in Pharmacological Sciences Volume 2013*, 308249, 11.
- Voight, R. (1995). *Buku Pelajaran Teknologi Farmasi*, edisi V.
- Vijay D. Wagh. (2013). Propolis: A Wonder Bees Product and Its Pharmacological Potentials. *Pharmacological Sciences*, 2013, 11.
- Xu, X., Xie, B., Pan, S., Yang, E., Wang, K., Cenkowski, S., Hydamake, A. W., and Rao S. (2006) A new technology for extraction and purification of

proanthocyanidins derived from sea buckthorn bark. *J. Sci. Food Agric.*, 86, 486–492.

- Wasiatmadja, S. M. (1997). *Penuntun Ilmu Kosmetik Medik Universitas Indonesia*, Jakarta.
- Zhang, S. Q., Bi, H. M. and Liu, C. J. (2007). Extraction of bio-active components from *Rhodiola sachalinensis* under ultrahigh hydrostatic pressure. *Separation and Purification Technology*, 57, 277-282.
- Zhou, K., Yu, L. (2004). Effects of extraction solvent on wheat bran antioxidant activity estimation. *LWT*, 37, 717-721.
- Z. Kobus. (2008). Dry matter extraction from valerian roots (*Valeriana officinalis* L.) with the help of pulsed acoustic field, *Int. Agrophysics* 22. 133–13.